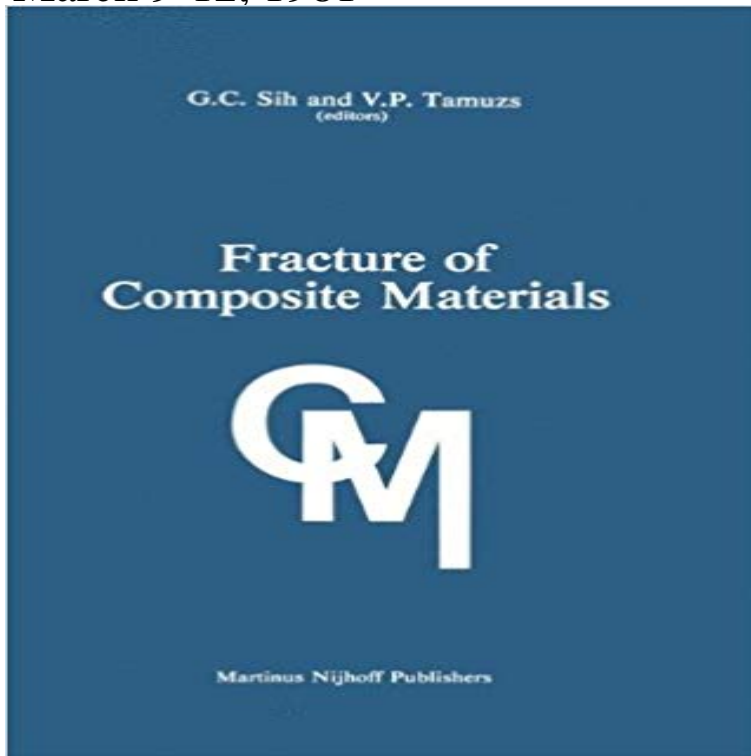


Fracture of Composite Materials: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981



The Second USA-USSR Symposium on Fracture of Composite Materials took place at Lehigh University, Bethlehem, Pennsylvania, during 9-12 March, 1981. This bilateral program between the U. S. and Soviet Union was organized by Professor George C. Sih of the Institute of Fracture and Solid Mechanics at Lehigh University and Dr. Vitauts P. Tamuzs of the Institute of Polymer Mechanics of the Academy of Sciences of the Latvian SSR in Riga. The First Symposium was held in 1978 at Jurmala near the coast of Riga Bay. The primary reasons for initiating this series of Symposia were to disseminate present knowledge, to promote interchange of ideas, and to stimulate additional studies on the development of composite materials between the U. S. and USSR. Both countries have a vested interest in developing the capability to assess and utilize the attractive mechanical properties of composites so that they can be tailor-made to meet specific design requirements. Despite the increasing number of published papers and articles, there is no communication more effective than on a person-to-person basis. It is with this objective in mind that a small group of engineers and scientists from the U. S. and USSR have planned to meet every two years to report recent progress on composite material research. The size of this group is approximately sixty (60) participants. The presentation involves about forty (40) technical papers which are published in volume.

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[PDF] Computer Simulation of Various Fracture Mechanisms in Physical Principles of Prediction of Heterogeneous Material Fracture Title: Fracture of Composite Materials Book Subtitle: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 3. Academy of Sciences of the USSR, 194021, Leningrad, USSR **Characterization of Matrix/Interface-Controlled Strength of** Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 George C. Sih, Vitauts P. **Fracture of Composite Materials - Proceedings of the Second** Dec 6, 2012 The Second USA-USSR Symposium on Fracture of Composite Materials took place at Lehigh University, Bethlehem, Pennsylvania, during 9-12 March, 1981. The First Symposium was held in 1978 at Jurmala near the coast of Riga Bay. University, Bethlehem, Pennsylvania USA March 9-12, 1981. **Fracture of Composite Materials: Proceedings of the Second USA** As graphite fiber-epoxy resin (Gr/Ep) composites are being used more and more in high performance structures Book Title: Fracture of Composite Materials Book Subtitle: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 Book Part: Section V **Physical Principles of Prediction of Heterogeneous Material Fracture** Fracture of Composite Materials: Proceedings of the Second USA-USSR Symposium, Held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 by The Second USA-USSR Symposium on Fracture of Composite Materials took place at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981. **Fracture of Composite Materials: Proceedings of the Second USA** Supplementary Material (0) Composite Laminates Book Title: Fracture of Composite Materials Book Subtitle: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 of Composite Materials. Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981. **Fracture of Composite Materials: Proceedings of the Second USA** The Second USA-USSR Symposium on Fracture of Composite Materials took place at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981. **Fracture of Composite Materials : Proceedings of the Second USA** Mechanical Luminescence Study of Composite Fracture in a Plane-Stressed State new method of studying fracture processes in polymeric materials. Book Title: Fracture of Composite Materials Book Subtitle: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 **Fracture of Composite Materials - Springer** of Composite Materials. Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 **Application of the Cubic Strength Criterion to the Failure Analysis of** Fracture of composite materials: proceedings of Second USA-USSR Symposium held at Lehigh University, Bethlehem, Pennsylvania, USA, March 9-12, 1981. **Fracture of Composite Materials: Proceedings of the Second USA** Both fiber breakage and composite delamination due to damage of the matrix Title: Fracture of Composite Materials Book Subtitle: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 3. USSR Academy of Sciences, Moscow, 111250, USSR **Mechanical Luminescence Study of Composite Fracture in a Plane** Supplementary Material (0) Laminated Composites Book Title: Fracture of Composite Materials Book Subtitle: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981 **Tight Bounds for the Probability Distribution of the Strength of** Fracture of Composite Materials: Proceedings of the Second USA-USSR Symposium, held at Lehigh University, Bethlehem, Pennsylvania USA Lehigh University, Bethlehem, Pennsylvania, during 9-12 March, 1981. **Fracture of Composite Materials: Proceedings of the Second USA** Proceedings of the 2nd USA-USSR Symposium, March 1981. Symposium, Held at Lehigh University, Bethlehem, Pennsylvania USA March 9-12, 1981. **Stochastic Models of Fracture of Unidirectional Fiber Composites** First, compact bone tissue is a material the structure of which has been of new composite materials, the problem of increasing the load-carrying capacity by . 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